

STEREO MOC Status Report  
Time Period: 2011:248 - 2011:254

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 248, during the DSS 26 support, telemetry lock was lost intermittently beginning at 1156z through 1252z due to heavy rain at the Goldstone complex. This resulted in the loss of several minutes of SSR data. See DR# G111938 for more information.
- On day 250, during the DSS 54 support, turbo decoder lock was lost intermittently beginning at 0603z through 0740z. This resulted in the loss of 11 frames of SSR data. See DR# N107590 for more information.
- On day 251, during the DSS 55 support, the 240 kbps downlink rate was used for the duration of the support. The received signal power was satisfactory throughout the support. This was a test using a 34 meter station of a change to the STEREO data return CONOPs to implement a planned downlink rate step on selected tracks whose elevation is above 25 degrees for the duration of the track. This planned downlink rate step will help to maintain/increase the daily science data return with the ever increasing S/C range, by taking advantage of the increased RF margin at higher antenna elevations.
- On day 251, the GRAIL mission launch was delayed two days with the actual launch on day 253-1308z. As a result, two tracks were added on day 251 to the AHEAD observatory, another was added on day 252, and two tracks were deleted on days 252 and 253. All SSR was recovered. The track coverage for the BEHIND observatory was not affected.
- On day 252, during the DSS 34 support, turbo decoder lock was lost briefly beginning at 0115z. This resulted in the loss of one frame of SSR data.
- On day 253, during the DSS 55 support, turbo decoder lock was lost briefly beginning at 0947z. This resulted in the loss of four frames of SSR data. A DR has been requested.

- On day 254, during the DSS 15 support, turbo decoder lock was lost briefly beginning at 1730z. This resulted in the loss of 406 frames of SSR data. A DR has been requested.

2. The following spacecraft/instrument events occurred during this week:

- The average daily SSR playback volume for Ahead was 4.7 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period:

- On day 248, during the DSS 15 support, the delivery of SSR data to the MOC was delayed 24 hours due to a DCD anomaly. All SSR data was recovered. See DR# N107588 for more information.
- On day 249, during the DSS 34 support, turbo decoder lock was lost briefly beginning at 0626z. This resulted in the loss of two frames of SSR data. See DR# N107584 for more information.
- On day 254, during the DSS 63 support, the SWAVES science partition began overwriting at 1841z for 18 minutes due to insufficient track time.

2. The following spacecraft/instrument events occurred during this week:

- The average daily SSR playback volume for Behind was 4.5 Gbits during this week.